Safety Data Sheet

70 % ISOPROPYL ALCOHOL

Section 1. Identification

Product Identifier	70 % ISOPROPYL ALCOHOL
Synonyms	MCHEM145; MSD_SDS0200
Manufacturer Stock Numbers	MCHEM145
Recommended use	General use organic solvent
Uses advised against	N/A

Manufacturer Contact

Address

Medline Industries, Inc.
3 Lakes Drive
Northfield, IL, 60093
USA

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website

www.Medline.com

Section 2. Hazards Identification

Classification

EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3

Signal Word

Danger

Pictogram

Hazard Statements

Causes serious eye irritation
Highly flammable liquid and vapor
May cause drowsiness or dizziness

Precautionary Statements

Response	Call a poison center or doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use appropriate extinguishing media.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Ground/bond container and receiving equipment. Keep away from heat. Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash effected area thoroughly after handling. Wear eye protection/face protection. Wear protective gloves/eye protection/face protection
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container according to local and federal regulations.

Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7732-18-5	Purified USP grade Water	28% - 32%
67-63-0	Isopropyl alcohol	68% - 72%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General Advice:	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye Contact:	Avoid rubbing eyes. Immediately flush eyes with large amounts of water, occasionally lifting upper and lower lids, until no evidence of product remains (minimum 15 minutes is typically recommended). Remove contact lenses, if present and easy to do. Get medical attention if pain or irritation persists.
Skin Contact:	Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Do not apply oils or ointments unless ordered by the physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If signs/symptoms continue, get medical attention.
Ingestion:	If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	In case of fire, use Dry Chemical, Alcohol-resistant foam and Carbon Dioxide (CO2)
Unsuitable Extinguishing Media	Water jet.
Unusual Fire and Explosion Hazards:	May produce a floating hazard. Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces.
Special Fire Fighting Procedures:	May explode when heated. Closed containers may rupture and explode during runaway polymerization. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Self contained breathing apparatus and full protective clothing recommended.
Special Fire Fighting Procedures:	Keep unopened containers cool by spraying with water.
Special Fire Fighting Procedures:	Carbon oxides expected to be the primary hazardous combustion product.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Should not be released into the environment
Flammable Small Spill:	Absorb with an inert dry material and place in an appropriate waste disposal container.
Flammable Large Spill:	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

Section 7. Handling and Storage

Storage Flammable:	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Handling Flammable:	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/ fumes/ vapor/ spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Purified USP grade Water	N/A	N/A	N/A
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm STEL: 500 ppm	N/A

Personal Protective Equipment	Goggles, Gloves
Engineering Controls:	Ventilation: General. Ventilation: Local exhaust. Electrical equipment should be grounded and conform to applicable electrical code.
Respiratory Protection:	Respiratory protection may be worn if ventilation does not eliminate symptoms or keeps levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved organic respirator. NIOSH-Approved Supplied Air Respirator (SAR). NIOSH-Approved self-contained breathing apparatus. Do not exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.
Skin Protection:	Protective Gloves: Gloves
Eye Protection:	Wear chemical safety goggles while handling this product. Do not wear contact lenses. Wear additional eye protection such as face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.
Other protective equipment:	Quick-drench facilities. Eye-wash station. Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Work/hygienic practices:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	N.D.
Odor Threshold	N.D.
Solubility	Miscible
Partition coefficient Water/n-octanol	Log Pow: 0.05 (for IPA 99%)
VOC%	N/A
Viscosity	N.D.
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	18.3° C (64.9° F)
FP Method	Closed cup
Ph	N.D.
Melting Point	-90° C (-130° F) (for IPA 99%)
Boiling Point	83° C (181° F) (for IPA 99%)
Boiling Range	N/A
LEL	2
UEL	12.7
Evaporation Rate	N.D.
Flammability	OSHA/NFPA Class 1B Flammable Liquid
Decomposition Temperature	N.D.
Auto-ignition Temperature	399° C (750° F) (for IPA 99%)
Vapor Pressure	43.2 kPa (32.4 mmHg)
Vapor Density	2.1 (for IPA 99%)

Molecular Weight: Isopropyl Alcohol 60.1 g/mol Water 18.02 g/mol

Section 10. Stability and Reactivity

Stability:	Stable.
Reactivity:	Vapors may form explosive mixture with air.
Incompatibility (Materials to Avoid):	Strong oxidizing agents. Strong acids
Incompatibility (Materials to avoid):	Acid anhydrides.
Incompatibility (Materials to Avoid)	Aluminum.
Incompatibility (Materials to avoid):	Halogenated compounds.
Incompatibility (Materials to Avoid):	Strong acids.
Hazardous Decomposition or Byproducts:	Burning may produce Carbon Monoxide, Carbon Dioxide and other hazardous components.
Conditions to avoid:	Keep away from heat. Open flame. Sparks. Extreme/high temperatures. Direct sunlight.

Section 11. Toxicological Information

No Data Available

Section 12. Ecological Information

Toxicity:	N.A.
Persistence and degradability:	N.D.
Bioaccumulative potential:	There is no specific data available for this product
Mobility in soil:	N.D.
Other adverse effects:	There is no specific data available for this product

Section 13. Disposal

Waste Disposal:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

UN Number	1219
UN Proper Shipping Name	Isopropanol
DOT Classification	3
Packing Group	II
IMDG - UN Number	1219
IMDG - UN Proper Shipping Name	Isopropanol
IMDG - Packing Group	II
IMDG - Hazard Class:	3
IMDG - EMS-No:	F-E, S-D
IMDG - Marine pollutant:	No
IATA - UN Number:	1219
IATA - UN Proper Shipping Name:	Isopropanol
IATA - Packing Group:	II
IATA - Hazard Class:	3
Additional Information	

Section 15. Regulatory Information

SARA 311/312:	N.A.
SARA 302:	N.A.
SARA 313:	Isopropyl alcohol.
TSCA:	N.A.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	Isopropyl Alcohol
Pennsylvania Right to Know Components:	Isopropyl Alcohol.
Rhode Island Right to Know Components:	isopropyl alcohol.

Section 16. Other Information

Revision Date	03/21/2017
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
HMIS (U.S.A.): Health Hazard	2
HMIS (U.S.A.): Flammability	3
HMIS (U.S.A.): Reactivity	1
National Fire Protection Association (U.S.A): Health Hazard	2
National Fire Protection Association (U.S.A): Flammability	3
National Fire Protection Association (U.S.A): Instability Hazard	1
Additional Information	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees